

0334-2 DIV <110> Hillman, Jennifer L.; Lal, Preeti G.; Corley, Neil C.; Shah, Purvi <120> ANTIBODIES TO A HUMAN PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE 5-PHOSPHATASE (As amended) <130> PF-0334-2 DIV <140> 09/892,287 <141> 2001-06-26 <150> US 09/258,643 <151> 1999-02-26 <150> US 08/884,681 <151> 1997-06-27 <160> 5 <170> PERL Program <210> 1 <211> 372 <212> PRT <213> Homo sapiens <220> <221> misc\_feature <223> Incyte ID No: 638789CD1 <400> 1 Met Asp Val Leu Ser Pro Leu Ser Phe Ile Lys Val Ser His Val Arg Met Gln Gly Ile Leu Leu Val Phe Ala Lys Tyr Gln His Leu Pro Tyr Ile Gln Ile Leu Ser Thr Lys Ser Thr Pro Thr Gly Leu Phe Gly Tyr Trp Gly Asn Lys Gly Gly Val Asn Ile Cys Leu 55 50 Lys Leu Tyr Gly Tyr Tyr Val Ser Ile Ile Asn Cys His Leu Pro 65 Pro His Ile Ser Asn Asn Tyr Gln Arg Leu Glu His Phe Asp Arg 80 85 Ile Leu Glu Met Gln Asn Cys Glu Gly Arg Asp Ile Pro Asn Ile 95 100 Leu Asp His Asp Leu Ile Ile Trp Phe Gly Asp Met Asn Phe Arg 115 110 Ile Glu Asp Phe Gly Leu His Phe Val Arg Glu Ser Ile Lys Asn 130 125

Arg Cys Tyr Gly Gly Leu Trp Glu Lys Asp Gln Leu Ser Ile Ala

Lys Lys His Asp Pro Leu Leu Arg Glu Phe Gln Glu Gly Arg Leu

Leu Phe Pro Pro Thr Tyr Lys Phe Asp Arg Asn Ser Asn Asp Tyr

155

170

180

145

160

175

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Leu Trp Arg Leu Lys Arg Gln Pro Cys Ala Gly Pro Asp Thr Pro
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Ser His Met Thr Tyr Gly Ile Ser Asp His Lys Pro Val Ser Gly
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Thr Phe Asp Leu Glu Leu Lys Pro Leu Val Ser Ala Pro Leu Ile
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Val Leu Met Pro Glu Asp Leu Trp Thr Val Glu Asn Asp Met Met
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Val Ser Tyr Ser Ser Thr Ser Asp Phe Pro Ser Ser Pro Trp Asp
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Trp Ile Gly Leu Tyr Lys Val Gly Leu Arg Asp Val Asn Asp Tyr
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Val Ser Tyr Ala Trp Val Gly Asp Ser Lys Val Ser Cys Ser Asp
Asn Leu Asn Gln Val Tyr Ile Asp Ile Ser Asn Ile Pro Thr Thr
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Glu Asp Glu Phe Leu Leu Cys Tyr Tyr Ser Asn Ser Leu Arg Ser
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                                     25
Thr Trp Pro Ile Leu Lys Gly Phe Gln Glu Gly Pro Leu Asn Phe
                                     40
Ala Pro Thr Phe Lys Phe Asp Val Gly Thr Asn Lys Tyr Asp Thr
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1 5 10 15

Leu His Gln Leu Trp Glu Lys Asp Gln Leu Asn Met Ala Lys Asn 20 25 30

Thr Trp Pro Ile Leu Lys Gly Phe Gln Glu Gly Pro Leu Asn Phe 35 40 45

Ala Pro Thr Phe Lys Phe Asp Val Gly Thr Asn Lys Tyr Asp Thr 50 55 60

Ser Ala Lys Lys Arg Lys Pro Ala Trp Thr Asp Arg Ile Leu Trp 65 70 75

Lys Val Lys Ala Pro Gly Gly Gly Pro Ser Pro Ser Gly Arg Lys 90

Ser His Arg Leu Gln Val Thr Gln His Ser Tyr Arg Ser His Met 95

Glu Tyr Thr Val Ser Asp His Lys Pro Val Ala Ala Gln Phe Leu 110

Leu Gln Phe Ala Phe Arg Asp Met Pro Leu Val Arg Leu Glu

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Val Ala Asp Glu Trp Val Arg Pro Glu Gln Ala Val Val Arg Tyr
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Arg Met Glu Thr Val Phe Ala Arg Ser Ser Trp Asp Trp Ile Gly
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Leu Tyr Arg Val Gly Phe Arg His Cys Lys Asp Tyr Val Ala Tyr
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Val Trp Ala Lys His Glu Asp Val Asp Gly Asn Thr Tyr Gln Val
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                                    190
Thr Phe Ser Glu Glu Ser Leu Pro Lys Gly His Gly Asp Phe Ile
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                                    205
Leu Gly Tyr Tyr Ser His Asn His Ser Ile Leu Ile Gly Ile Thr
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Glu Pro Phe Gln Ile Ser Leu Pro Ser Ser Glu Leu Ala Ser Ser
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Ser Thr Asp Ser Ser Gly Thr Ser Ser Glu Gly Glu Asp Asp Ser
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Thr Leu Glu Leu Leu Ala Pro Lys Ser Arg Ser Pro Ser Pro Gly
                260
                                    265
Lys Ser Lys Arg His Arg Ser Arg Ser Pro Gly Leu Ala Arg Phe
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Pro Gly Leu Ala Leu Arg Pro Ser Ser Arg Glu Arg Arg Gly Ala
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                                    295
Ser Arg Ser Pro Ser Pro Gln Ser Arg Arg Leu Ser Arg Val Ala
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Pro Asp Arg Ser Ser Asn Gly Ser Ser Arg Gly Ser Ser Glu Glu
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Gly Pro Ser Gly Leu Pro Gly Pro Trp Ala Phe Pro Pro Ala Val
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Pro Arg Ser Leu Gly Leu Leu Pro Ala Leu Arg Leu Glu Thr Val
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Asp Pro Gly Gly Gly Ser Trp Gly Pro Asp Arg Glu Ala Leu
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E,

Met Gln Phe Cys Gln Pro Asp Pro Ser Leu Pro Pro Leu Thr Ile Ser Asn His Asp Val Ile Leu Trp Leu Gly Asp Leu Asn Tyr Arg Ile Glu Glu Leu Asp Val Glu Lys Val Lys Lys Leu Ile Glu Glu Lys Asp Phe Gln Met Leu Tyr Ala Tyr Asp Gln Leu Lys Ile Gln Val Ala Ala Lys Thr Val Phe Glu Gly Phe Thr Glu Gly Glu Leu Thr Phe Gln Pro Thr Tyr Lys Tyr Asp Thr Gly Ser Asp Asp Trp Asp Thr Ser Glu Lys Cys Arg Ala Pro Ala Trp Cys Asp Arg Ile Leu Trp Lys Gly Lys Asn Ile Thr Gln Leu Ser Tyr Gln Ser His Met Ala Leu Lys Thr Ser Asp His Lys Pro Val Ser Ser Val Phe Asp Ile Gly Val Arg Val Val Asn Asp Glu Leu Tyr Arg Lys Thr Leu Glu Glu Ile Val Arg Ser Leu Asp Lys Met Glu Asn Ala Asn Ile Pro Ser Val Ser Leu Ser Lys Arg Glu Phe Cys Phe Gln Asn Val Lys Tyr Met Gln Leu Lys Val Glu Ser Phe Thr Ile His Asn Gly Gln Val Pro Cys His Phe Glu Phe Ile Asn Lys Pro Asp Glu Glu Ser Tyr Cys Lys Gln Trp Leu Asn Ala Asn Pro Ser Arg Gly Phe Leu Leu Pro Asp Ser Asp Val Glu Ile Asp Leu Glu Leu Phe Val Asn Lys Thr Thr Ala Thr Lys Leu Asn Ser Gly Glu Asp Lys Ile Glu Asp Ile Leu Val Leu His Leu Asp Arg Gly Lys Asp Tyr Phe Leu Ser Val Ser Gly Asn Tyr Leu Pro Ser Cys Phe Gly Ser Pro Ile His Thr Leu Cys Tyr Met Arg Glu Pro Ile Leu Asp Leu Pro Leu Glu Thr Ile Ser Glu Leu Thr Leu Met Pro Val Trp Thr Gly Asp Asp Gly Ser Gln Leu Asp Ser Pro Met Glu Ile Pro Lys Glu Leu Trp Met Met Val Asp Tyr Leu Tyr Arg Asn Ala Val Gln Gln Glu Asp Leu Phe Gln Gln Pro Gly Leu Arg Ser Glu Phe Glu His Ile Arg Asp Cys Leu Asp Thr Gly Met Ile Asp Asn Leu Ser Ala Ser Asn His Ser Val Ala Glu Ala Leu Leu Leu Phe Leu Glu Ser Leu Pro Glu Pro Val Ile Cys Tyr Ser Thr Tyr His Asn Cys 

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                                    895
Glu Asn Ile Leu Ala Ser Ile Phe Gly Ser Leu Leu Leu Arg Asn
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                                     40
His Glu Lys Glu Gln His Val Gln Asp Ile Ile Pro Ile Asn Ser
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His Phe Arg Cys Val Gln Glu Ala Glu Glu Thr Leu Leu Ile Asp
Ile Ala Ser Asn Ser Gly Cys Lys Ile Arg Val Gln Gly Asp Trp
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Ile Arg Glu Arg Arg Phe Glu Ile Pro Asp Glu Glu His Cys Leu 100 95 Lys Phe Leu Ser Ala Val Leu Ala Ala Gln Lys Ala Gln Ser Gln 115 Leu Leu Val Pro Glu Gln Lys Asp Ser Ser Ser Trp Tyr Gln Lys 130 125 Leu Asp Thr Lys Asp Lys Pro Ser Val Phe Ser Gly Leu Leu Gly 140 145 Phe Glu Asp Asn Phe Ser Ser Met Asn Leu Asp Lys Lys Ile Asn 160 155 Ser Gln Asn Gln Pro Thr Gly Ile His Arg Glu Pro Pro Pro 175 Pro Phe Ser Val Asn Lys Met Leu Pro Arg Glu Lys Glu Ala Ser 190 185 Asn Lys Glu Gln Pro Lys Val Thr Asn Thr Met Arg Lys Leu Phe 200

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Ile Leu Ala Lys Arg Glu Lys Glu Tyr Val Asn Ile Gln Thr Phe

215

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				620				Ser	625					630
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T	λ	D	т1.	680	Q1	Val	Desc	1101		Tira	Lou	т1.	λαη	
Lys	ALG	PIO	ire	695	GIU	val	PIO	vai	700	гуз	Leu	TIE	Asp	705
Glu	Glu	Asn	Ser		T.eu	G1u	Lvs	Glu		Ser	T.eu	T.eu	Gln	
Olu	Olu	1100		710	204	014	_10		715	~~_				720
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FIO	GIY	Ser	ASII	785	Ser	vai	АІа	Giu	790	пеа	Бец	110	1110	795
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Cys	Leu	Asp	Ser	Ala	Tyr	Asp	Pro	Arg	Ile	Cys	Arg	Gln	Val	Ile
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Ser	Gln	Leu	Pro	Arg	Cys	His	Arg	Asn	Va1	Phe	Arg	$\operatorname{Tyr}$	Leu	Met
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Ala	Phe	Leu	Arg		Leu	Leu	Lys	Phe		Glu	Tyr	Asn	Ser	
_		_		845	. 1	m1		D1 -	850		<b>.</b>	<b>T</b>	T	855
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Ara	Ala	Ile	Gln		Leu	Leu	Glv	Phe		Leu	Glv	Ser	Glu	
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Asp														

E, condid